

C-CLAMPS

CRITERIA FOR USE

Based on the results of field testing, C-clamps in conjunction with angles-clamped to beams, will be permitted for transmitting longitudinal forces in accordance with the criteria contained in this memo.

RESTRICTIONS FOR USE

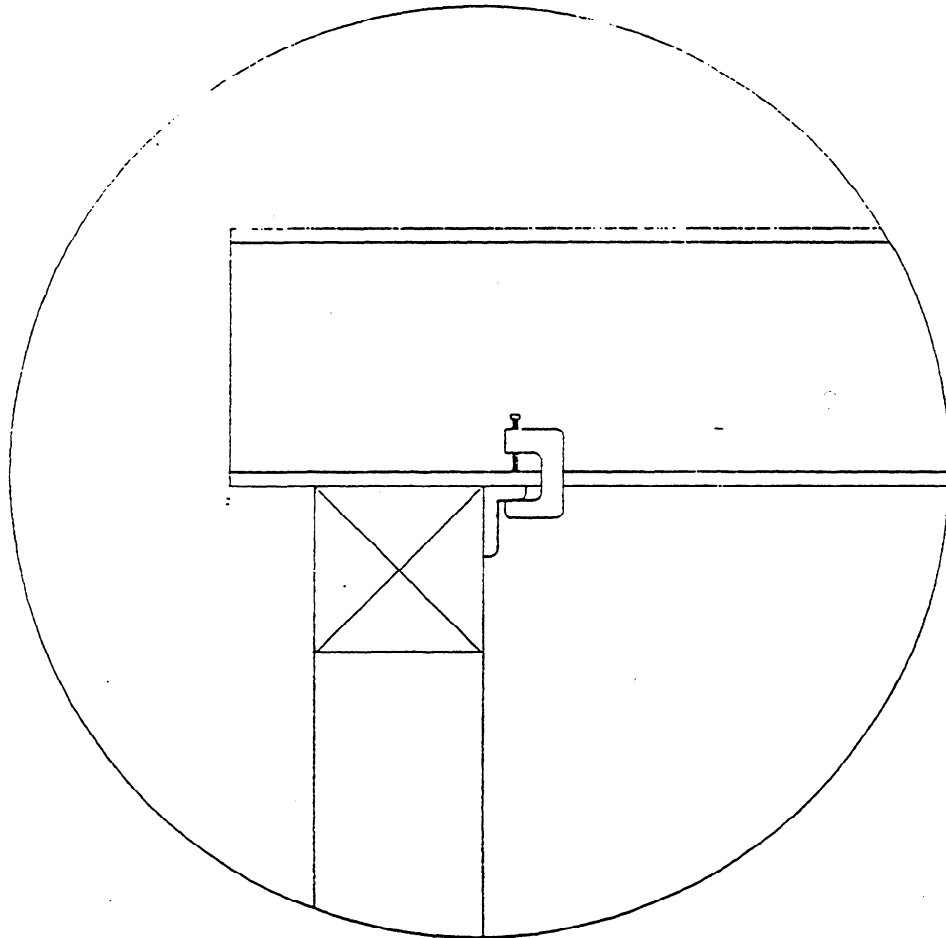
The use of approved C-clamps is to be in conformance with the following:

- A. For clamping constant thickness flanges, angle legs or plates connecting steel sections. They are not to be used in conjunction with beveled or sloping surfaces.
- B. When used as shown in Figure 1, clamps may resist longitudinal forces at a maximum value of 3,000 pounds per clamp and may be used on either, or both, sides of caps.
- C. For resisting the specified 500 pound force in any direction.
- D. A C-clamp used to resist longitudinal forces may not be used to resist other forces also. Similarly, a clamp used to resist a 500 pound force may not be used to resist other forces.
- E. Clamps used to connect steel beam stringers to steel caps (to resist a 500 pound force) are to be placed on the heaviest loaded span side of falsework stringers. Clamps are not to be installed on the tail end of beams or stringers.
- F. Beams and caps shall not be clamped together to resist longitudinal forces.
- G. C-clamps are to be torque tightened to 90 foot-pounds,

RESTRICTIONS ON C-CLAMPS

C-clamps permitted for use shall conform to the following:

- A . Commercial heavy duty service pattern clamps (generally drop forged premium quality steel) with not less than a 10,000 pound load limit.
- B . C-clamp must remain in the elastic range while withstanding a torque of 90 foot-pounds load on the bolt.
- C . Bolt diameter is to be not less than 3/4 inch with a hardened cup end.
- D . Non-commercial C-clamps shall conform to those same restrictions, Figure 2 depicts an approved non-commercial C-clamp.



1 OF 2 C-CLAMPS HOLDING ANGLE TO BOTTOM
FLANGE OF BEAM (ONE EACH SIDE)

FIGURE 1

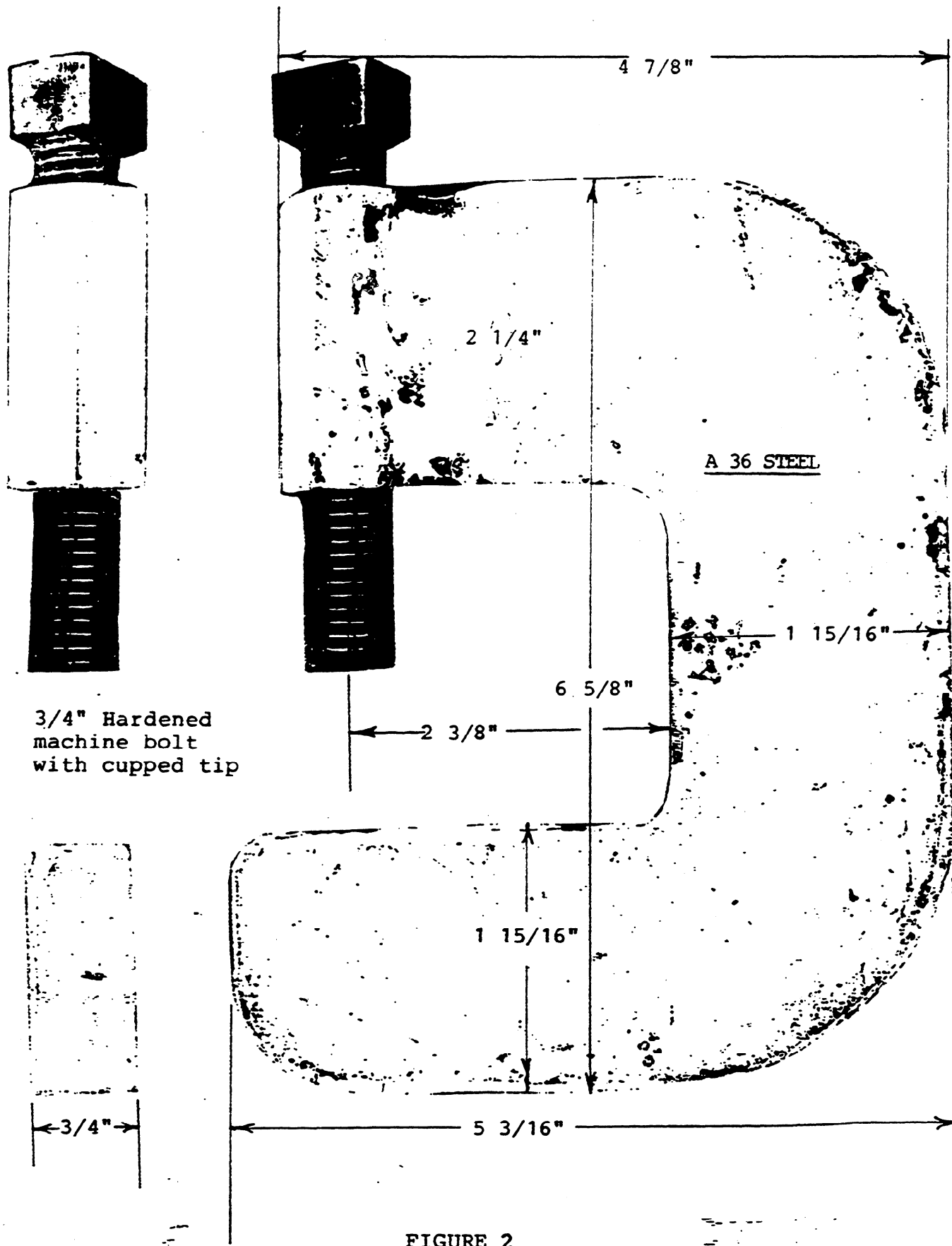


FIGURE 2

FALSEWORK MEMO NO. 5 (7/01/88)